PLANNING AND SCHEDULING DIPLOMA

PRIMAVERA P6 – DURATION & RELATIONSHIPS

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TYPICAL STEPS FOR PROJECT PLANNING & SCHEDULING

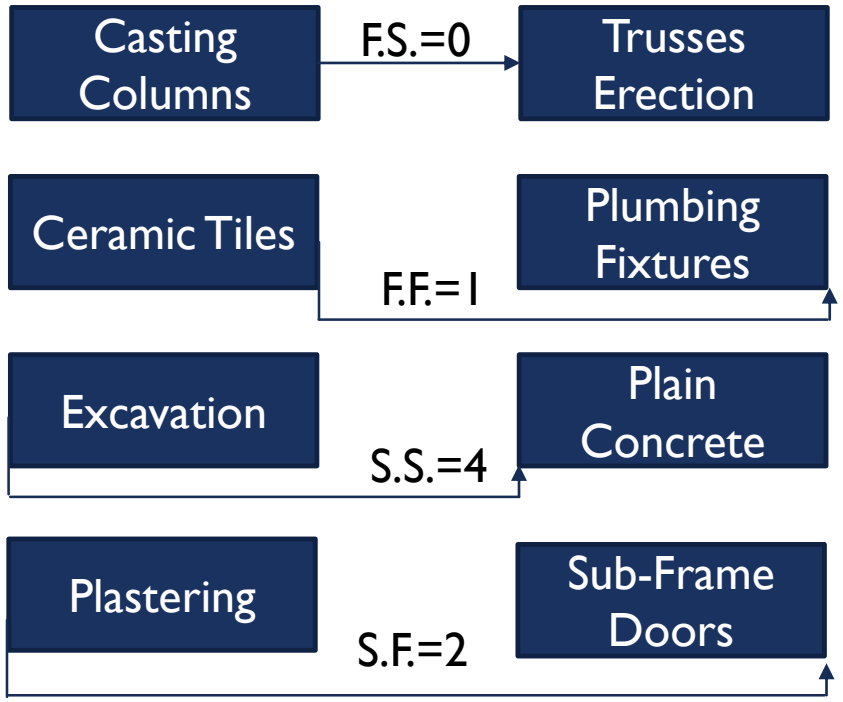
- Define the project (Create WBS).
- List of project activities.
- Sequence the activities.
- Activity resource estimating. (requirements)
- Activity duration estimating (PERT, CPM).
- Schedule calculation/development.

PRIMAVERA P6

- Points that will be covered
  - Duration Estimation
  - Creating Relationships on Primavera P6
  - Viewing Relationship Types
  - Soft Logic/Hard Logic

SEQUENCE THE ACTIVITIES

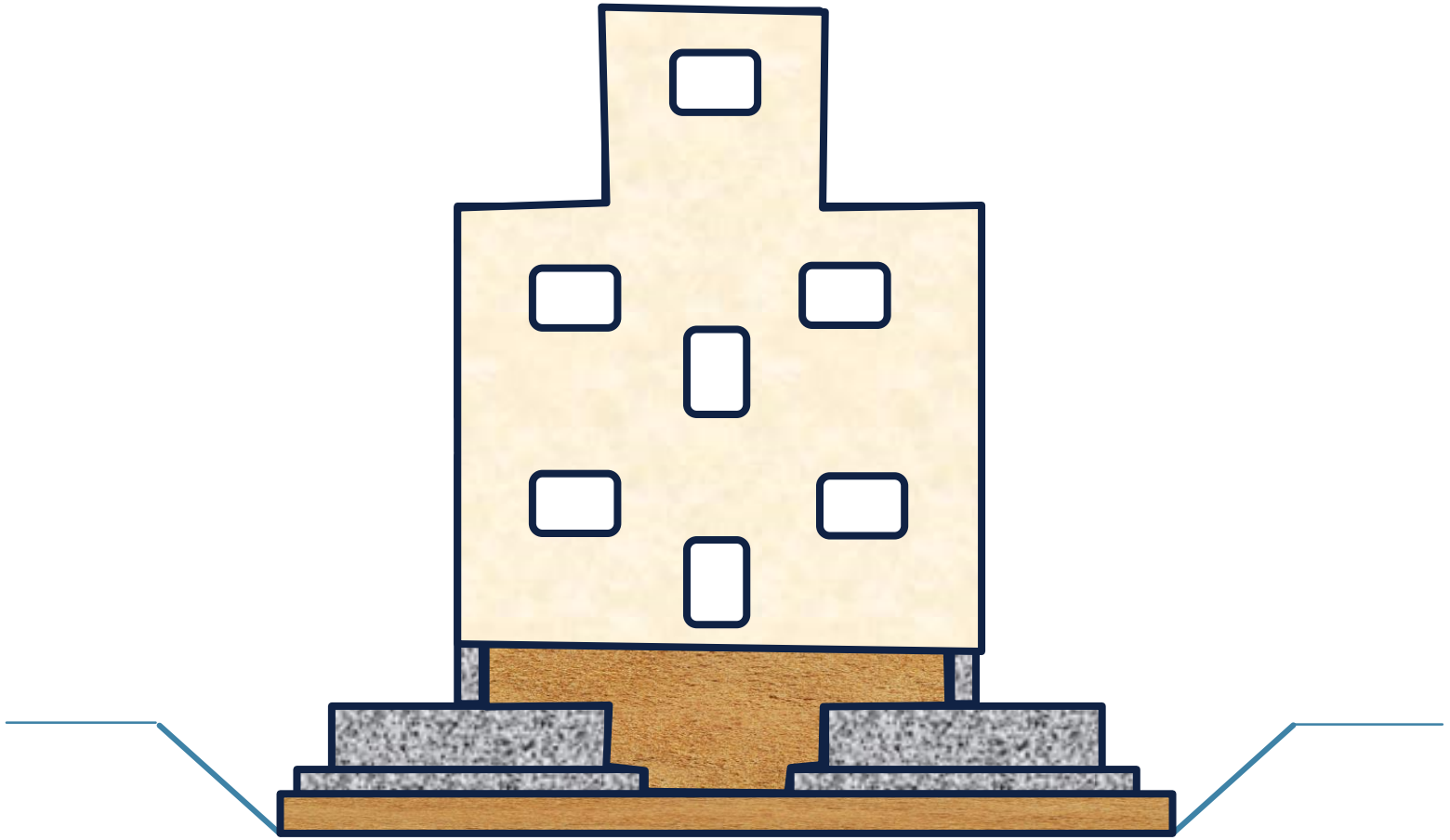
- PDM includes four types of dependencies or precedence relationships:
  - Finish to Start
  - Finish to Finish
  - Start to Start
  - Start to Finish



SEQUENCE THE ACTIVITIES

- Leads and Lags
  - A lead may be added to start an activity before the predecessor activity is completed (-ve Lag).
  - A lag is inserted as a waiting time between activities

SEQUENCE THE ACTIVITIES



ACTIVITY RESOURCE REQUIREMENT

- The types and quantities of resources required for each activity in a work package.

- How is the estimation done?
  - Expert Judgement.
  - Alternative Analysis.
  - Published Estimating Data.
  - Bottom-up Estimating.

ACTIVITY DURATION ESTIMATING

- The process of estimating schedule activity durations uses information on schedule activity scope of work, required resources types, estimated resource quantities, and resource calendar with resource availabilities.

- How is the estimation done?
  - Expert Judgement.
  - Analogous Estimating.
  - Parametric Estimating.
    - $Duration = \frac{Quantity}{Productivity\ X\ no.of\ crews}$

THANKS FOR WATCHING